

**TAPE GUIDE DECREASING TRANSVERSE MOVEMENT OF DATA  
STORAGE TAPE AT HIGH FREQUENCIES**

**Abstract of the Disclosure**

5           A tape guide for use with a data storage tape system including a read/write head.  
The tape guide includes a bearing portion and a tape interface portion extending from  
the bearing portion. The tape interface portion is configured to support a data storage  
tape near the read/write head. Upon longitudinal movement of the data storage tape  
across the tape interface portion, the tape guide limits a spectral content of data storage  
10 tape lateral movement measured at the read/write head to less than 0.1  $\mu\text{m}$  at lateral  
movement frequencies between 50 and 500 cycles/meter.